RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/434,870

DATE: 09/06/2001
TIME: 15:11:18

Input Set : A:\06352.ST25.txt
Output Set: N:\CRF3\09062001\I434870.raw

```
      3 <110> APPLICANT: Huse, William
      4       Watkins, Jeffry
      5       Wu, Herren
      7 <120> TITLE OF INVENTION: Methods of Optimizing Antibody Variable Region Binding
Affinity
      9 <130> FILE REFERENCE: AME-06352
     11 <140> CURRENT APPLICATION NUMBER: 09/434,870
C--> 12 <141> CURRENT FILING DATE: 2001-08-20
     14 <150> PRIOR APPLICATION NUMBER: 60/159,689
     15 <151> PRIOR FILING DATE: 1999-10-14
     17 <160> NUMBER OF SEQ ID NOS: 4
     19 <170> SOFTWARE: PatentIn version 3.0
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 107
     23 <212> TYPE: PRT
     24 <213> ORGANISM: Mus musculus
     26 <400> SEQUENCE: 1
     28 Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Thr Pro Gly
     29 1               5                  10                  15
     31 Asp Arg Val Ser Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Asp Tyr
     32             20                  25                  30
     34 Leu His Trp Tyr Gln Gln Lys Ser His Glu Ser Pro Arg Leu Leu Ile
     35         35                  40                  45
     37 Lys Tyr Ala Ser His Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
     38     50                  55                  60
     40 Ser Gly Ser Gly Ser Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Pro
     41 65                  70                  75                  80
     43 Glu Asp Val Gly Ile Tyr Tyr Cys Gln His Gly His Ser Phe Pro Arg
     44                 85                  90                  95
     46 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
     47             100                 105
     49 <210> SEQ ID NO: 2
     50 <211> LENGTH: 107
     51 <212> TYPE: PRT
     52 <213> ORGANISM: Homo sapiens
     54 <400> SEQUENCE: 2
     56 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
     57 1               5                  10                  15
     59 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
     60             20                  25                  30
     62 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
     63         35                  40                  45
     65 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
     66     50                  55                  60
     68 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
     69 65                  70                  75                  80
     71 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Leu
     72                 85                  90                  95
```

RAW SEQUENCE LISTING DATE: 09/06/2001
PATENT APPLICATION: US/09/434,870 TIME: 15:11:19

Input Set : A:\06352.ST25.txt
Output Set: N:\CRF3\09062001\I434870.raw

```
74 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
75             100                 105
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 122
79 <212> TYPE: PRT
80 <213> ORGANISM: Mus musculus
82 <400> SEQUENCE: 3
84 Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
85 1               5                  10                  15
87 Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Thr Thr
88             20                  25                  30
90 Gly Met Gln Trp Val Gln Glu Met Pro Gly Lys Gly Leu Lys Trp Ile
91         35                  40                  45
93 Gly Trp Ile Asn Thr His Ser Gly Val Pro Lys Tyr Val Glu Asp Phe
94     50                  55                  60
96 Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Asn Thr Ala Tyr
97 65                  70                  75                  80
99 Leu Gln Ile Ser Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys
100                 85                  90                  95
102 Val Arg Ser Gly Asn Gly Asn Tyr Asp Leu Ala Tyr Phe Ala Tyr Trp
103             100                 105                 110
105 Gly Gln Gly Thr Leu Val Thr Val Ser Ala
106         115                 120
108 <210> SEQ ID NO: 4
109 <211> LENGTH: 113
110 <212> TYPE: PRT
111 <213> ORGANISM: Homo sapiens
113 <400> SEQUENCE: 4
115 Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
116 1               5                  10                  15
118 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
119             20                  25                  30
121 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
122         35                  40                  45
124 Gly Trp Ile Asn Thr Asn Thr Gly Asn Pro Thr Tyr Ala Gln Gly Phe
125     50                  55                  60
127 Thr Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
128 65                  70                  75                  80
130 Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
131                 85                  90                  95
133 Ala Arg Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
134             100                 105                 110
136 Ser
```

VERIFICATION SUMMARY DATE: 09/06/2001
PATENT APPLICATION: US/09/434,870 TIME: 15:11:20

Input Set : A:\06352.ST25.txt
Output Set: N:\CRF3\09062001\I434870.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date